

## WHAT IS CLAIMED IS:

- 1                   1.     A system for collecting diagnostic information and  
2     transmitting the diagnostic information to a remote location, the system comprising:  
3                   a member contoured to at least a portion of a person's hand, the  
4     member comprising at least an EKG diagnostic device, the diagnostic device  
5     comprising at least eight EKG sensors; and  
6                   an interface unit in electrical communication with the member,  
7     wherein the interface unit is capable of transmitting information to a remote  
8     location.
- 1                   2.     The system of claim 1 wherein the member comprises a palm  
2     portion, a wrist portion and a plurality of phalange portions.
- 1                   3.     The system of claim 2 wherein the EKG sensors are located  
2     on the member on at least two of the palm portion, the wrist portion, and at least  
3     one of the phalange portions.
- 1                   4.     The system of claim 3 wherein the EKG sensors are located  
2     on the member on the palm portion, the wrist portion and at least one of the  
3     phalange portions.
- 1                   5.     The system of claim 2 wherein the EKG diagnostic device  
2     comprises at least 10 sensors.
- 1                   6.     The system of claim 5 wherein eight of the sensors are located  
2     on the member and extend in a first direction away from the member, and the other  
3     two sensors are located on the member and extend in a second direction away from  
4     the member.
- 1                   7.     The system of claim 5 wherein the EKG diagnostic device  
2     comprises 11 sensors.

1                   8.     The system of claim 7 wherein the EKG diagnostic device  
2 comprises nine sensors located on the palm portion of the member extending away  
3 from the palm portion in a first direction and two sensors located on the palm  
4 portion of the member extending away from the palm portion in a second direction.

1                   9.     The system of claim 2 wherein the plurality of phalange  
2 portions comprise an index finger phalange portion and a middle finger phalange  
3 portion, wherein the index finger phalange portion is at least as long as about the  
4 middle finger phalange portion of the member.

1                   10.    The system of claim 9 wherein the index finger phalange  
2 portion is longer than the middle finger phalange portion of the member.

1                   11.    The system of claim 2 wherein the plurality of phalange  
2 portions comprise an index finger phalange portion and a middle finger phalange  
3 portion, at least four of the EKG sensors are located on the index finger phalange  
4 portion of the member.

1                   12.    The system of claim 9 wherein at least five of the EKG  
2 sensors are located on the index finger phalange portion of the member.

1                   13.    The system of claim 2 wherein the plurality of phalange  
2 portions comprise a thumb portion, with at least one of the EKG sensors being  
3 located on the thumb portion of the member.

1                   14.    The system of claim 2 wherein the plurality of phalange  
2 portions comprise a pinky finger portion, with at least one of the EKG sensors being  
3 located on the pinky finger portion of the member.

1                   15.    The system of claim 2 wherein at least one of the EKG  
2 sensors is located on a palmer surface of the palm portion of the member.

1                   16.    The system of claim 15 wherein at least one of the EKG  
2 sensors is located on a dorsal surface of the palm portion of the member.

1                   17.    The system of claim 15 wherein at least one of the EKG  
2 sensors is located on an interior surface of the wrist portion of the member.

1                   18.    The system of claim 1 wherein the member has a shape that  
2 corresponds to at least a substantial portion of a person's hand such that the member  
3 is capable of being worn on a person's hand.

1                   19.    The system of claim 18 wherein the member has a portion  
2 shaped to contour to a person's palm.

1                   20.    The system of claim 18 wherein the member has a portion  
2 shaped to contour to a person's finger.

1                   21.    The system of claim 20 wherein the member has a portion  
2 shaped to contour to a person's palm.

1                   22.    The system of claim 18 wherein the member comprises a palm  
2 portion.

1                   23.    The system of claim 22 wherein the member further  
2 comprises at least two phalange portions.

1                   24.    The system of claim 23 wherein the member comprises a  
2 glove.

1                   25.    The system of claim 18 wherein the member comprises a  
2 plurality of diagnostic devices.

1                   26.    The system of claim 25 wherein the plurality of diagnostic  
2    devices includes the EKG diagnostic device, a blood pressure and pulse diagnostic  
3    device and a temperature device.

1                   27.    The system of claim 26 wherein the plurality of diagnostic  
2    devices further includes a percent O<sub>2</sub> diagnostic device.

1                   28.    The system of claim 27 wherein the plurality of diagnostic  
2    devices further includes an auscultation device.

1                   29.    The system of claim 25 wherein the plurality of diagnostic  
2    devices comprises the EKG diagnostic device, a blood pressure and pulse rate  
3    device, a temperature device, a percent O<sub>2</sub> device, and an auscultation device.

1                   30.    The system of claim 1 wherein the EKG diagnostic device  
2    comprises at least 10 sensors.

1                   31.    The system of claim 1 wherein the EKG diagnostic device  
2    comprises 11 sensors.

1                   32.    The system of claim 18 wherein the EKG diagnostic device  
2    comprises at least 10 sensors.

1                   33.    A system for collecting diagnostic information and  
2    transmitting the diagnostic information to a remote location, the system comprising:  
3                   a member comprising an EKG diagnostic device, the EKG diagnostic  
4    device comprising at least eight EKG sensors located on the member; and  
5                   an interface unit in electrical communication with the member, the  
6    interface unit capable of transmitting information to a remote location.

1                   34.    The system of claim 33 wherein the member comprises a  
2    palmer surface portion and a dorsal surface portion, the palmer surface portion  
3    having a first side and a second side.

1                   35.    The system of claim 34 wherein the eight sensors are located  
2   on the palmer surface portion.

1                   36.    The system of claim 35 wherein six of the eight sensors  
2   extend away from the dorsal surface portion and two of the eight sensors extend  
3   toward the dorsal surface portion.

1                   37.    The system of claim 34 wherein the EKG diagnostic device  
2   comprises 10 sensors.

1                   38.    The system of claim 37 wherein eight of the ten sensors  
2   extend away from the dorsal surface portion and two of the eight sensors extend  
3   toward the dorsal surface portion.

1                   39.    The system of claim 37 wherein the member comprises a  
2   glove.

1                   40.    The system of claim 39 wherein the EKG diagnostic device  
2   comprises 11 sensors.

1                   41.    The system of claim 40 wherein the member comprises a palm  
2   portion, a wrist portion and a plurality of phalange portions.

1                   42.    The system of claim 41 wherein the member has a shape that  
2   corresponds to at least a substantial portion of a person's hand such that the member  
3   is capable of being worn on a person's hand.

1                   43.    The system of claim 42 wherein the plurality of phalange  
2   portions comprise an index finger phalange portion and a middle finger phalange  
3   portion, wherein the index finger phalange portion is at least as long as about the  
4   middle finger phalange portion of the member.

1                   44.    The system of claim 43 wherein the index finger phalange  
2                   portion is longer than the middle finger phalange portion of the member.

1                   45.    The system of claim 44 wherein at least five of the EKG  
2                   sensors are located on the index finger phalange portion of the member.

1                   46.    The system of claim 45 wherein the member comprises a  
2                   glove.

1                   47.    A system for collecting diagnostic information and  
2                   transmitting the diagnostic information to a remote location, the system comprising:  
3                   a member contoured to at least a portion of a person's hand, the  
4                   member comprising at least eight sensors; and  
5                   an interface unit in electrical communication with the member,  
6                   wherein the interface unit is capable of transmitting information to a remote  
7                   location.

1                   48.    A diagnostic probe comprising:  
2                   a member comprising an EKG diagnostic device, the EKG diagnostic  
3                   device comprising at least eight EKG sensors located on the member.

1                   49.    The probe of claim 48 wherein the member is contoured to  
2                   at least a portion of a person's hand.

1                   50.    The probe of claim 49 wherein the EKG diagnostic device  
2                   comprises at least 10 sensors.

1                   51.    The probe of claim 50 wherein eight of the sensors are located  
2                   on the member and extend in a first direction away from the member, and the other  
3                   two sensors are located on the member and extend in a second direction away from  
4                   the member.

1                    52.    The probe of claim 49 wherein the EKG diagnostic device  
2 comprises 11 sensors.

1                    53.    The probe of claim 52 wherein the EKG diagnostic device  
2 comprises nine sensors located on the palm portion of the member extending away  
3 from the palm portion in a first direction and two sensors located on the palm  
4 portion of the member extending away from the palm portion in a second direction.

1                    54.    The probe of claim 52 wherein the plurality of phalange  
2 portions comprise an index finger phalange portion and a middle finger phalange  
3 portion, wherein the index finger phalange portion is at least as long as about the  
4 middle finger phalange portion of the member.

1                    55.    The probe of claim 54 wherein the index finger phalange  
2 portion is longer than the middle finger phalange portion of the member.

1                    56.    The probe of claim 50 wherein the plurality of phalange  
2 portions comprise an index finger phalange portion and a middle finger phalange  
3 portion, at least four of the EKG sensors are located on the index finger phalange  
4 portion of the member.

1                    57.    The probe of claim 54 wherein at least five of the EKG  
2 sensors are located on the index finger phalange portion of the member.

1                    58.    The probe of claim 50 wherein the plurality of phalange  
2 portions comprise a thumb portion, with at least one of the EKG sensors being  
3 located on the thumb portion of the member.

1                    59.    The probe of claim 50 wherein the plurality of phalange  
2 portions comprise a pinky finger portion, with at least one of the EKG sensors being  
3 located on the pinky finger portion of the member.

1                   60.    The probe of claim 50 wherein at least one of the EKG  
2 sensors is located on a palmer surface of the palm portion of the member.

1                   61.    The probe of claim 60 wherein at least one of the EKG  
2 sensors is located on a dorsal surface of the palm portion of the member.

1                   62.    The probe of claim 60 wherein at least one of the EKG  
2 sensors is located on an interior surface of the wrist portion of the member.

1                   63.    The probe of claim 50 wherein the member has a shape that  
2 corresponds to at least a substantial portion of a person's hand such that the member  
3 is capable of being worn on a person's hand.

1                   64.    The probe of claim 63 wherein the member comprises a  
2 glove.

1                   65.    The probe of claim 49 wherein the member comprises a  
2 plurality of diagnostic devices.

1                   66.    The probe of claim 65 wherein the plurality of diagnostic  
2 devices includes the EKG diagnostic device, a blood pressure and pulse diagnostic  
3 device and a temperature device.

1                   67.    The probe of claim 66 wherein the plurality of diagnostic  
2 devices further includes a percent O<sub>2</sub> diagnostic device.

1                   68.    The probe of claim 67 wherein the plurality of diagnostic  
2 devices further includes an auscultation device.

1                   69.    The system of claim 65 wherein the plurality of diagnostic  
2 devices comprises the EKG diagnostic device, a blood pressure and pulse rate  
3 device, a temperature device, a percent O<sub>2</sub> device, and an auscultation device.



1                   70.    A method of obtaining and transmitting medical diagnostic  
2 information from a remote location, the method comprising:  
3                   providing a member comprising at least an EKG diagnostic device,  
4 the diagnostic device comprising at least eight EKG sensors;  
5                   using the member to collect medical diagnostic information from a  
6 first person at a remote location.

1                   71.    The method of claim 70 wherein the diagnostic information  
2 is transmitted from the first location to a second location.

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